SEQUENCE LISTING

(1)	GENERAL	INFORMATION:

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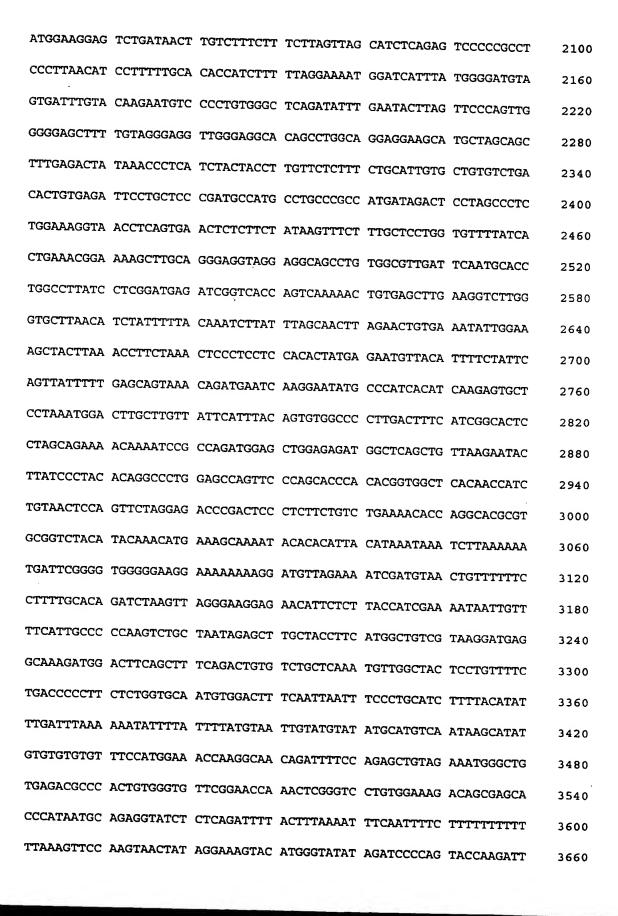
- (A) NAME: Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e. V.
- (B) STREET: none
- (C) CITY: Berlin
- (D) STATE: none
- (E) COUNTRY: Germany
- (F) POSTAL CODE (ZIP): none
- (ii) TITLE OF INVENTION: Regulatory Sequences Capable Of Conferring Expression Of A Heterologous DNA Sequence In Endothelial Cells In Vivo And Uses Thereof
- (iii) NUMBER OF SEQUENCES: 21
- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

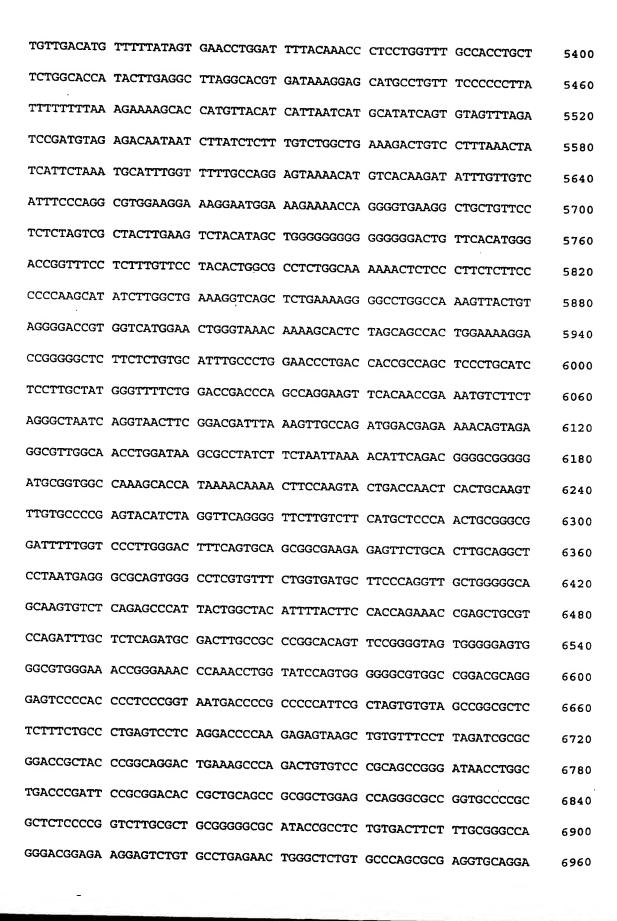
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12845 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

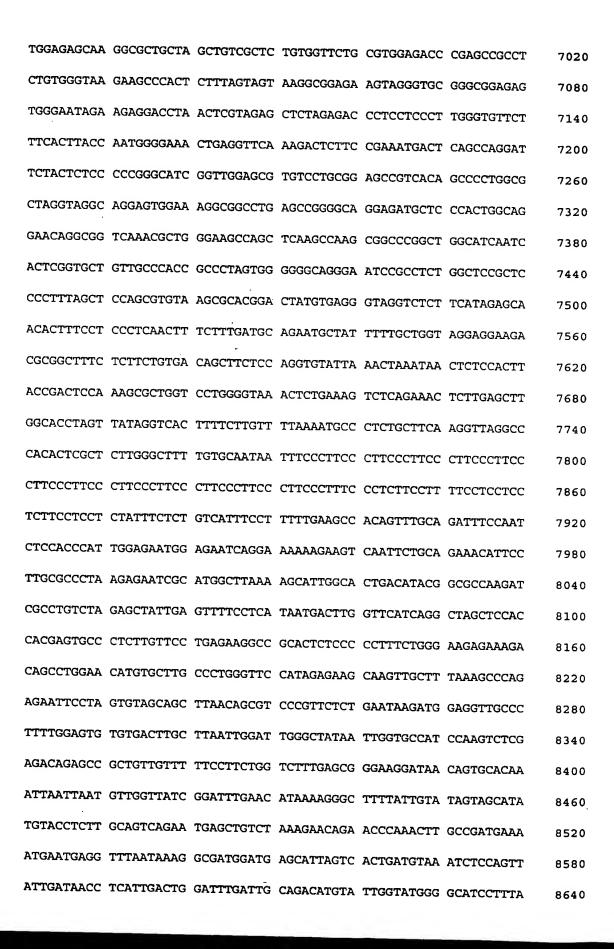
TCTAGAATAT	AGAAGATAAG	TTTGCGTACA	ATTCAGTCCT	TTGAAGACCT	GATAAGCTTT	60
AAGAAGGAAG	ATGGGTTACA	CATTGGGAAA	TGGTTGCAAT	CTGCACATGG	CAGAGGCAAG	120
AGATGCAAAT	CACATTTCTT	ACATACTCCA	TACAAATCTT	ACAAGACTGT	TTTTCTTTCT	180
CATTTAAAAT	AAGAAGACCT	GCCAGTCTTC	CCCTTATTAC	TAATTACAGT	CACTCTGTAT	240
CTTTGTTGAC	ATTGGATAGT	TTTACATACT	TCAACAGGCT	GGTGTCATTA	AAGTTGTGGT	300
GGGTGGGCAC	CAGAGACACG	TGATTCAGAG	TGGGAGGAGA	TGCAGGAGAA	ACGAGGCACA	360

420	AGGTTCCGCA	ACACATCGAG	AACGTTACTA	AAACACTCTC	AAGCGAGGAA	GCAGAAGCAG
480	GCCTAGCCGC	TGAAAATTTT	TCTCTGCTGT	TCTGACCTAA	ACGGGCTGAA	CACTAGCAAT
540	TGCCTAGCCT	TTGAAAATTT	ATCTCTGCTG	ATCTGACCTA	TACGGGCTGA	ACACTAGCAA
600	TTGACTAACC	CTCTGGTTCT	GAGAGTAATT	ACAGAAAAAG	TGCTGAGCAT	GTCACACAAG
660	CTGGTTATAC	TAGTACATGA	TGTATACATT	CCTAAGATAA	TATCAAATTG	AAATAGTCTA
720	AGTCCATTTT	GAGCATATGA	ATTTACAAGT	TTAAATGTGA	TGACTATTAT	СТАТТСТАТА
780	CCATTTATTT	TTATATTTT	TTGGACATAG	TTTTAAAAAG	TACATATAAC	ACATGGCTAG
840	CTCCACTGCT	GATTAACTCT	CCCTCCTCTG	ACAGACCCCC	TATCCTGATC	ATTTACTTTA
900	TGTCTTATCT	GGATACCTCC	TGAGAAGGGG	CCTTCACCTC	CCCCATCTCT	TCTTACCCCT
960	TGAGTTTTTC	TTTAATATCC	ACATATAATT	GTATCCTAAC	GGAGAAGGAT	GGTTTCAGTG
1020	GTTTTTTTT	CATGTTTAAT	TTCAGGAAGG	CTATTCATTT	CTTACTTATT	TTTCATACAC
1080	ACATTTTTGC	TGCATCGCAT	ACAGTCATAG	TTTTGCCTAC	TGTACGAGTG	TAATTTTATG
1140	GAACCACCTT	CTGGAGGCAT	TTCCCTAGGA	GAGCATTGGG	GATCAGAAGG	TGCCCGTAGA
1200	TGAGTCATCT	AGGTTCTTCT	TCAAAGCATC	CTGGGTCATC	AGAACTGAGC	GTGGGTGCAG
1260	GGCCCAGTCC	AGACATTCAT	ATCTGTGTGC	TACTGATTTT	TTCTCCCATT	CACTTGCCAC
1320	GTGTGAGTCC	TCCTTCTACC	GTCAGTCCTC	ACCTATAGGA	GTCAGGGACA	ACAGGTGGAA
1380	TGAGCCATCT	TTCTATTTGT	TAGCAAGAGC	TCGGGCTTCA	ACTCAGGTTG	CTGGCCTCAA
1440	TCATAATGAA	ATTAAGACAT	TATCTGTTTA	ATCTTTATAA	ACCCCATACT	TGCTAGCCCC
1500	TTGCCACCCC	TATGTATTAA	CCAATTTTAC	ATCCCCTTTA	ATTCATCGTT	ITTTATTAAC
1560	GCTAGATGGA	GTTCCAGGAA	TTACAGGAGA	TGGCTGGGTT	ATTACTTCCT	ATTTAAATTT
1620	TTCAAGTCCT	AGGACCTAGG	GTTCTTGCAG	AGCAACGGCT	AACAGTTTAG	GAGATGGCTC
1680	TGAAGAATTC	CCAGGGGATC	GACTTCAGTT	AATCATCTGT	GGTGGCTCAC	GGCACTCAGA
1740	CCAGCAAATG	GACATACATG	TTGGTTCATA	AACTACACAC	CATGGGCATC	ITCTGGGCTC
1800	TGAGGGAAGG	AAAAGGAAGG	ACAGAAAAA	TAAACCATAA	ACATATGAAA	ATTGATCCAT
1860	NNNNNNNNN	NNNNNNNNN	AGGAAGGGAN	AAAGGAAGGA	TAAAAAAAGG	AAAAAAAGTT
1920	ATGACTAAGG	GATGTCCACA	CATACTGAAA	NNNTCTCTC	NNNNNNNNN	NNNNNNNNN
1980	TTGTGAGGAA	CAAACTCTAT	TTCTAGGGAT	GCACAACGTT	TAAAAGACAA	GAATTTTTTT
2040	TTTCCCCTGG	CATGAGCGTG	TTACATCTAA	CATAGCAGAG	TTGAAGATTA	GACTGGTGGT













GTCTGTTTGG	TGTGGCCCTC	ACAAGGCACT	GTGAGCTTCT	TCTCTCTGTG	TGCTAACTTC	12000
TTACTCTCCC	TTGCTTATAC	CCACATAGGG	ACTCTGGCTT	TGTTGCTGTT	CTTCAATGCT	12060
TCAGATGTGC	CCTGGGTCCT	GTCTGTCCTT	CACACTTACT	GATGCTGCCT	GGAATGCTAT	12120
TCCTCCCAAT	GTGCATAGGG	CCAGCTCGGT	CCAAATCCTC	TCTTTTCTTT	GCCTCTTTTA	12180
TATTTTCCTT	CACAGTATCA	AATCACCACA	GTTTATGCAA	CAAACTGAAA	CTTTAAAATT	12240
GTCTGTCTCC	TTATATTAGT	GATAGGTTCC	AGAAAGGCAC	TGATTTTTT	TCTTCCCTGG	12300
TGTACACTGG	GCAACTACTC	TACCACTGAG	CGTGATATCC	TTGGTCCCTT	AAAAGTTATC	12360
CTCTGTCCTT	AATAATGCTT	AGCAATCATA	TTTGCTTAAA	ATATTTATTG	AATGACTGCA	12420
GGAATGAATG	AATGAATGAG	CTAACAGAAA	ACTCATGACC	ATGTGGGTGA	TTTCCGAAAC	12480
AGAGTGTGAG	ATCTTTGGTG	GCATGTCCTT	GTAGACTGTC	TGCCACCAGT	ATCTATCATC	12540
TTGAAGGTGA	CTATTGAGTA	GTTTATATGC	ATGTGAAAAA	CCAAACCTTC	TATTCTCTTA	12600
CTCATAGCCT	CTCTTAATCA	TAGCCCTGTG	GCATGGAGTG	TACCATTGAT	ATCTTCCTGG	12660
AATACTTTTT	CAGGGGACAG	CGGGACCTGG	ACTGGCTTTG	GCCCAATGCT	CAGCGTGATT	12720
CTGAGGAAAG	GGTATTGGTG	ACTGAATGCG	GCGGTGGTGA	CAGTATCTTC	TGCAAAACAC	12780
rcaccattcc	CAGGGTGGTT	GGAAATGATA	CTGGAGCCTA	CAAGTGCTCG	TACCGGGACG	12840
rcgac						12845

(2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGGGTACCGA ATTCTAAATG GGGCGATTAC C

(2)	INFO	RMATION FOR SEQ ID NO: 3:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
GTG	GTACC(CA AACACTCAAC ACCACTG	27
(2)	INFO	RMATION FOR SEQ ID NO: 4:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
TCG	GTACC	GA CCCAGCCAGG AAGTTC	26
(2)	INFO	RMATION FOR SEQ ID NO: 5:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	

(iii) HYPOTHETICAL: YES

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
TTGCTAAGCT TCCTGCACCT CGCGCTGGG	29
(2) INFORMATION FOR SEQ ID NO: 6:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
AGGGATCCAC TCTTTAGTAG TAAGGCG	27
(2) INFORMATION FOR SEQ ID NO: 7:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
ACCTCGAGAC TTGGATGGCA C	21
(2) INFORMATION FOR SEQ ID NO: 8:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
GGGCTATAAT TGGTGCCATC C	21
(2) INFORMATION FOR SEQ ID NO: 9:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
GGATGGAGAA AATCGCCAGG C	21
(2) INFORMATION FOR SEQ ID NO: 10:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid	

(A) DESCRIPTION: /desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GTGTGCATTG TTTATGGAAG GG

(iii) HYPOTHETICAL: YES

(2) INF	ORMATION	FOR	SEQ	ID	NO:	11:
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CATAGACATA AACAGTGGAG GC

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- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
-(ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "oligonucleotide"
 - (iii) HYPOTHETICAL: YES
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

ATGGTACCCA GGTTGCTGGG GGCAG

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- (2) INFORMATION FOR SEQ ID NO: 13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
-(ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "oligonucleotide"
 - (iii) HYPOTHETICAL: YES

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
TGGTGCCGGA AACCAGGCAA A	21
(2) INFORMATION FOR SEQ ID NO: 14:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
ATCCTCTGCA TGGTCAGGTC	20
(2) INFORMATION FOR SEQ ID NO: 15:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
CGTGGCCTGA TTCATTCC	18

- (2) INFORMATION FOR SEQ ID NO: 16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:	
GGGAATTCAC CATGAGTTCT GAACGTCGAA AAG	33
(2) INFORMATION FOR SEQ ID NO: 17:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"</pre>	
(iii) HYPOTHETICAL: YES	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:	
AAGCGGCCGC TCATTTATCG TCATCGTCCT TGTAATCGTT AACTTGATCC AAAGCTCTG	59
(2) INFORMATION FOR SEQ ID NO: 18:	

- (2)
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 32 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"
 - (iii) HYPOTHETICAL: YES
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGGAATTCAC CACAATGACA GCTGACAAGG AG

(2)	INFO	RMATION FOR SEQ ID NO: 19:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 19:	
AAG	CGGCC	GC TCATTTATCG TCATCGTCCT TGTAATCGTT GGTGGCCTGG TCCAGAGCTC	6
TGA	G	• •	6
(2)	INFO	RMATION FOR SEQ ID NO: 20:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"	
	(iii)	HYPOTHETICAL: YES	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 20:	
CCG	GTACC	CA AACCCCGCCC AGCGTCTTG	2:
(2)	INFO	RMATION FOR SEQ ID NO: 21:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "oligonucleotide"

- (iii) HYPOTHETICAL: YES
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

CCGACAAGCT TGGTCGCTCG GTGTTCGAGG

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